

MAR 21 2005

Effective on 12/03/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

<i>Complete if Known</i>	
Application Number	09/837,711
Filing Date	April 17, 2001
First Named Inventor	Withers, Stephen G.
Examiner Name	E. Slobodyansky
Art Unit	1652
Attorney Docket No.	015119-000430US

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____

Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee

Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments

under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

<u>Application Type</u>	<u>FILING FEES</u> <u>Small Entity</u>		<u>SEARCH FEES</u> <u>Small Entity</u>		<u>EXAMINATION FEES</u> <u>Small Entity</u>		
	<u>Fee (\$)</u>	<u>Fee (\$)</u>	<u>Fee (\$)</u>	<u>Fee (\$)</u>	<u>Fee (\$)</u>	<u>Fee (\$)</u>	<u>Fees Paid (\$)</u>
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEESFee Description

Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent

50 25

Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent

200 100

Multiple dependent claims

360 180

<u>Total Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	
				<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
13	-20 or HP =	x	=		

HP = highest number of total claims paid for, if greater than 20

<u>Indep. Claims</u>	<u>Extra Claims</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>	<u>Multiple Dependent Claims</u>	
				<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
1	-3 or HP =	x	=		

HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

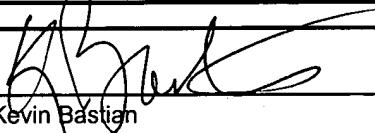
<u>Total Sheets</u>	<u>Extra Sheets</u>	<u>Number of each additional 50 or fraction thereof</u>	<u>Fee (\$)</u>	<u>Fee Paid (\$)</u>
_____	- 100 =	/ 50 = (round up to a whole number)	x	=

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Information Disclosure Statement 180

SUBMITTED BY

Signature		Registration No. (Attorney/Agent) 34,774	Telephone 415-576-0200
Name (Print/Type)	Kevin Bastian		Date March 17, 2005

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria,

VA 22313-1450 on March 17, 2005

By: Stephanie J. Whitehurst



PATENT
Attorney Docket No.: 015119-000430US
Client Ref. No.: UBC00089

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Stephen G. Withers *et al.*

Application No.: 09/837,711

Filed: April 17, 2001

For: METHODS AND COMPOSITIONS FOR
SYNTHESIS OF OLIGOSACCHARIDES
USING MUTANT GLYCOSIDASE
ENZYMES

Customer No. 20350

Examiner: E. Slobodyansky

Art Unit: 1652

**INFORMATION DISCLOSURE
STATEMENT UNDER
37 CFR §1.97 and §1.98**

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. Copies of the references AA - AH are enclosed.

Also enclosed is a copy of the Partial European Search Report corresponding to the co-pending European application.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

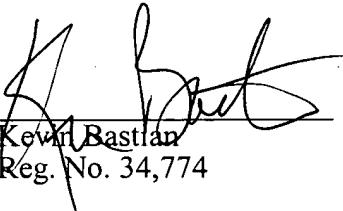
As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Date: March 17, 2005

By: 
Kevin Bastian
Reg. No. 34,774

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, CA 94111-3834
Tel: 206-467-9600
Fax: 415-576-0300
60434699 v1



Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/837,711
Sheet	1	of	1	Filing Date	April 17, 2001
				First Named Inventor	Withers, Stephen G.
				Art Unit	1652
				Examiner Name	E. Slobodyansky
				Attorney Docket Number	015119-000430US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	AA	BRAYER, G. et al., "The structure of human pancreatic α -amylase at 1.8 Å resolution and comparisons with related enzymes," <i>Protein Science</i> , 4:1730-1742 (1995).		
	AB	BUISSON, G. et al., "Three dimensional structure of porcine pancreatic α -amylase at 2.9 Å resolution. Role of calcium in structure and activity," <i>EMBO J.</i> , 6:3909-3916 (1987).		
	AC	ISHIKAWA, K. et al., "Substrate recognition at the binding site in mammalian pancreatic α -amylases," <i>Biochemistry</i> , 32:6259-6265 (1993).		
	AD	NAKAJIMA, R. et al., "Comparison of amino acid sequences of eleven different α -amylases," <i>Appl. Microbiol. Biotechnol.</i> , 23:355-360 (1986).		
	AE	QIAN, M. et al., "The active center of a mammalian α -amylase. Structure of the complex of a pancreatic α -amylase with a carbohydrate inhibitor refined to 2.2-Å resolution," <i>Biochemistry</i> , 33:6284-6294 (1994).		
	AF	RYDBERG, E. et al., "Cloning, mutagenesis, and structural analysis of human pancreatic α -amylase expressed in <i>Pichia pastoris</i> ," <i>Protein Sci.</i> , 8:635-643 (1999).		
	AG	SATO, T. et al., "The conformation of mature human α -amylase conditions its secretion from yeast," <i>Gene</i> , 83:355-365 (1989).		
	AH	TAKASE, K. et al., "Site-directed mutagenesis of active site residues in <i>Bacillus subtilis</i> α -amylase," <i>Biochim. Biophys. Acta.</i> , 1120:281-8 (April 17, 1992).		

60434699 v1

Examiner Signature	Date Considered
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

60434699 v1